Epitech picks Crius MOCVD for GaN LEDs

AIXTRON AG has received an order for a Thomas Swan CRIUS MOCVD reactor by Epitech Technology Corporation, of Tainan, Taiwan.

The system has a capacity of 30×2-in substrates and will be used for the mass production of GaN-based UHB LEDs. AIXTRON expects shipment to be in the third quarter of 2006. It will be installed in Epitech's state-of-the-art facility in the Tainan Science-based Industrial Park in the south of Taiwan.

"For many years, we have had a very satisfactory working relationship with AIXTRON which has met all our requirements for production of LED epiwafers," said Mr. Semi Wang, President of Epitech Technology Corporation. "In our new plans we require a versatile, high throughput machine to give us increased capacity needed to meet growing customer demand. This is why we have selected the new CRIUS MOCVD reactor."

Amongst the latest offerings in the Thomas Swan range of MOCVD tools, the CRIUS 30x2-inch is one of the highest capacity models available in the marketplace. Robust and extremely versatile, the customer can choose the optimum configuration by wafer size, in this case 30x2-inch sapphire or silicon carbide substrates per run.

The CRIUS design is based on AIXTRON's new 'Integrated Concept' (IC). The 'Integrated Concept' optimizes uptime and reduces cost thanks to a redesign of many components of the reactor system as well as the reactor cell itself. Key features include a compact footprint, improved maintenance, easier operation and handling, improved reliability and reproducibility compared to present reactors.

For more details, visit:
www.aixtron.com

Clean 'green' LEDs for auto

Philips Lumileds Lighting has launched a new range of red, red-orange and amber SuperFlux LEDs. They are fully compliant with the EU Restriction of the use of Hazardous Substances (RoHS) Directive so automotive manufacturers and other users will be able to meet the new environmental standards.

For more details, visit:
www.philipslumileds.com

LSI enters LED market

Lighting and graphics LSI Industries is to acquire Montreal-based Saco Technologies Inc., in a deal involving $23m in cash and about 1.4m shares of LSI common stock, as well as assuming some debt. Saco specializes in large-format video screens, including the largest video screen in the world, located at the Nasdaq Marketsite on Times Square in New York.

Saco will become part of the company's LSI Technology Solutions Plus business segment, and Saco CEO Fred Jalbout will serve as president of the unit. Operations will continue in Montreal, with the management team and employees remaining in place.

For more details, visit:
www.lsi-industries.com

Avago Technologies enters high-power LED market

The world's largest privately held semiconductor company, Avago Technologies, announced its first series of 1W, high-power LEDs in one of the thinnest packages available. This new LED offers brighter illumination, more reliability than competing products and can be installed easily. Avago's ASMT-MX00 is ideal for use in applications that require ultra-high-brightness LEDs, such as flashlights, reading lamps, architectural and garden lighting. This offering can lead to new lighting applications, such as brilliantly-backlighted signs no thicker than a picture frame.

Avago's new ASMT-MX00 LED package provides manufacturers with two significant advantages. First, it can be easily soldered using conventional surface mount techniques to minimize production costs, and the package is qualified to a JEDEC moisture sensitivity level (MSL) rating of 2A. For manufacturers, this rating means that the ASMT-MX00 LEDs can be kept in the open air (30C, 60% relative humidity) for up to four weeks after being removed from their sealed package without the need to remove absorbed moisture.

"Avago has entered the 1W LED market to provide our customers with a unique product combined with the assurance of our industry recognized reliability and ability to deliver in volume," said Cheng Kai Chong, worldwide marketing manager for Avago Technologies' Optoelectronic Products Division. "Our ASMT-MX00, which is the first in a series of 1W LED products, provides customers with one of the thinnest packages available."

For more details, visit:
www.avagotech.com/led